

Fig. 1

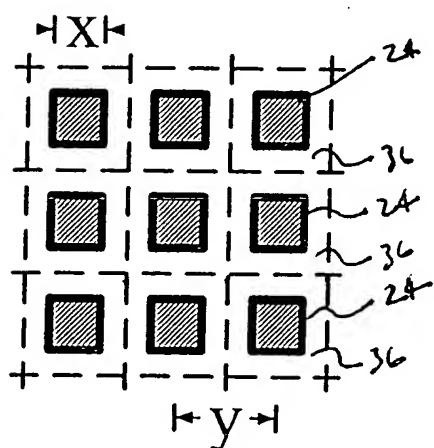


Fig. 2

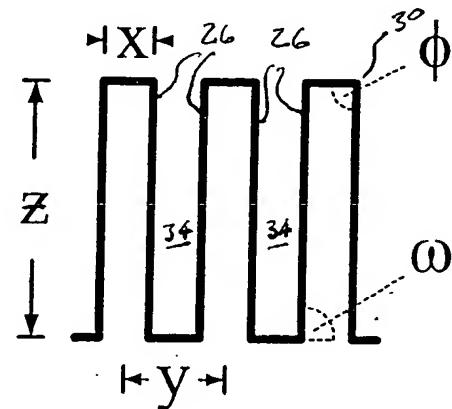


Fig. 3

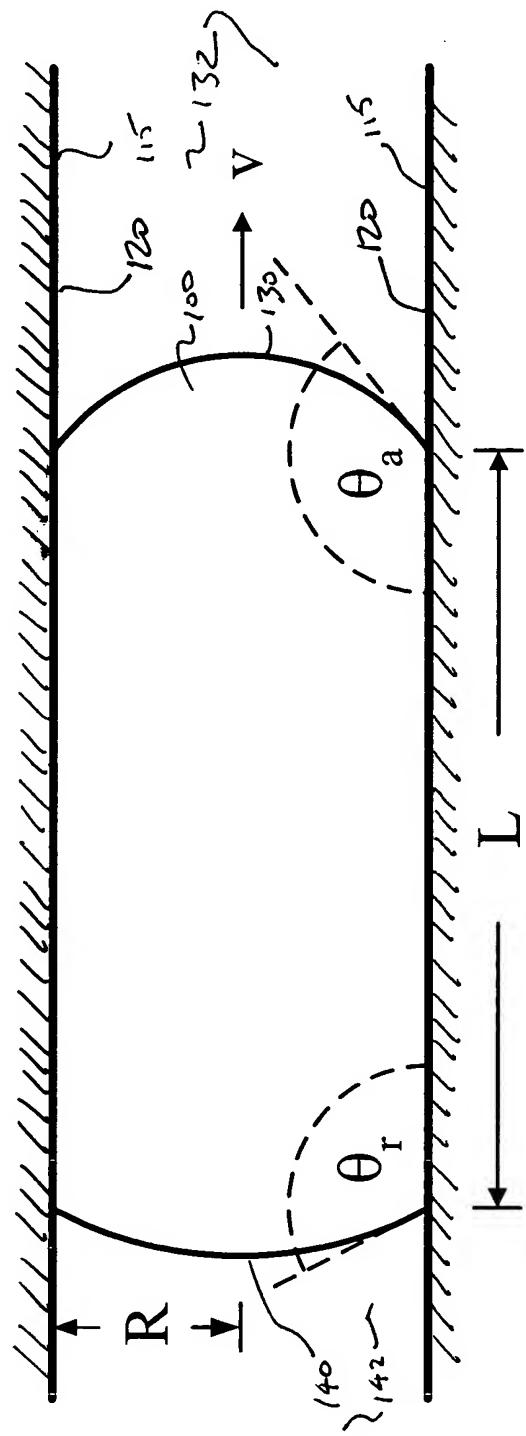


Fig. 1 a

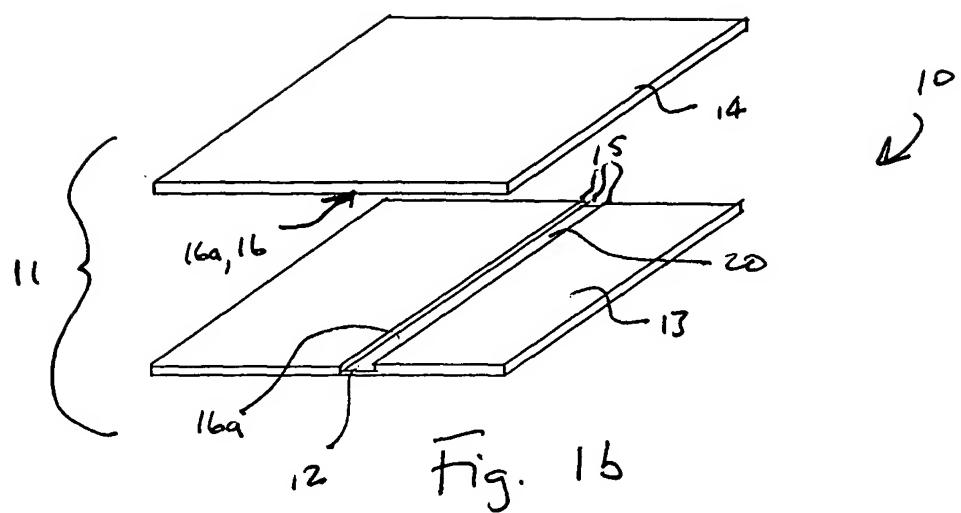


Fig. 1b

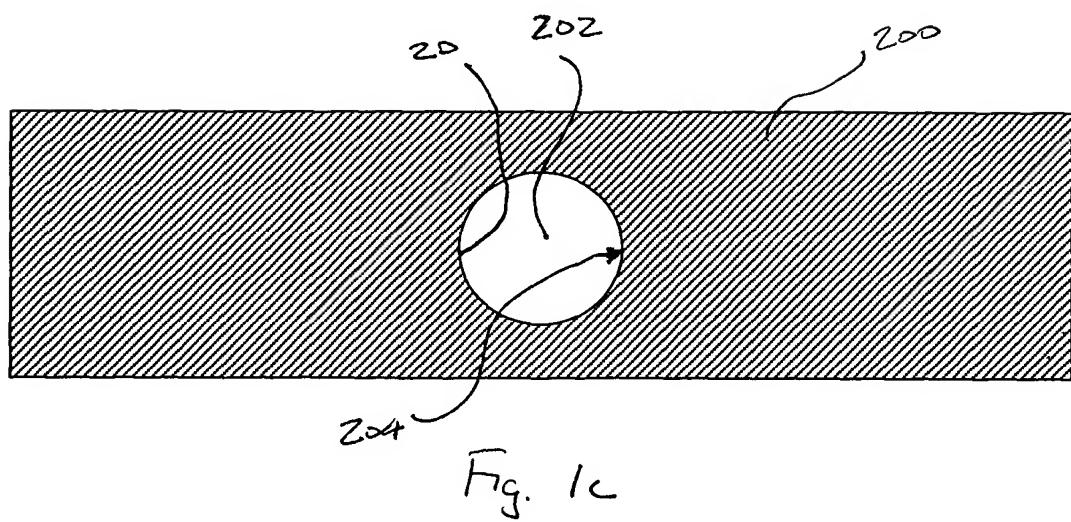


Fig. 1c

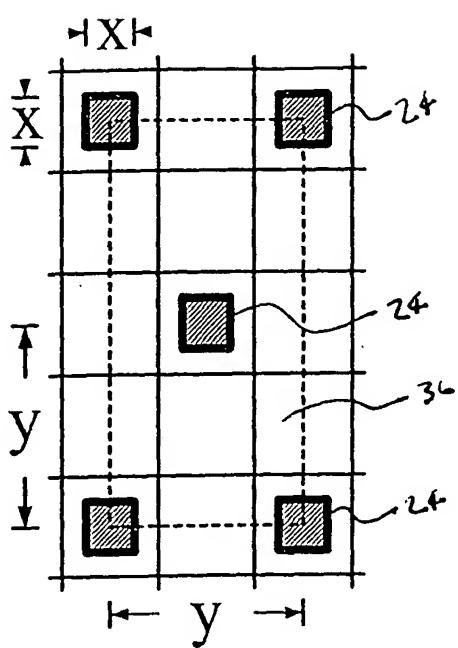


Fig. 4

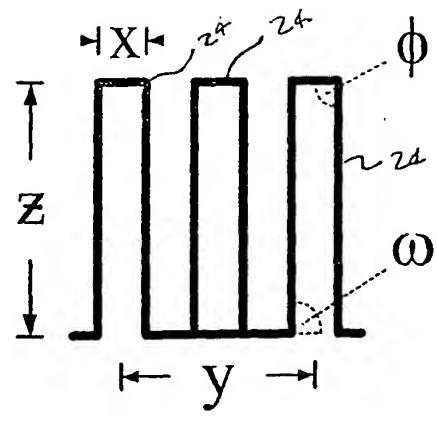


Fig. 5

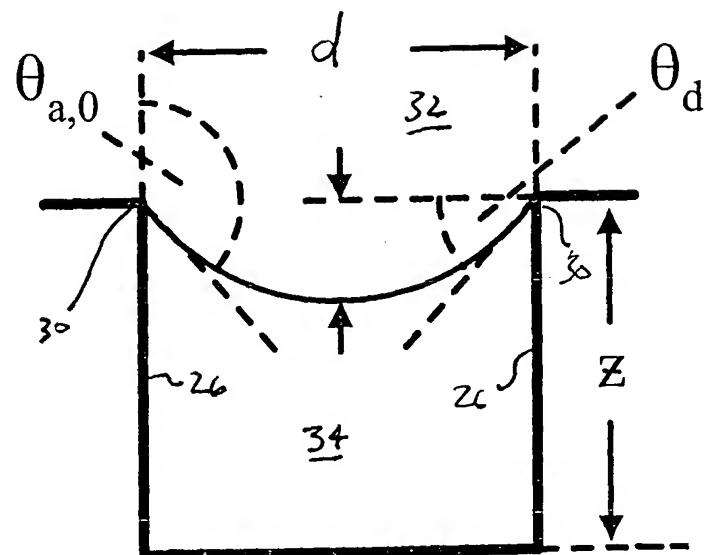


Fig. 6

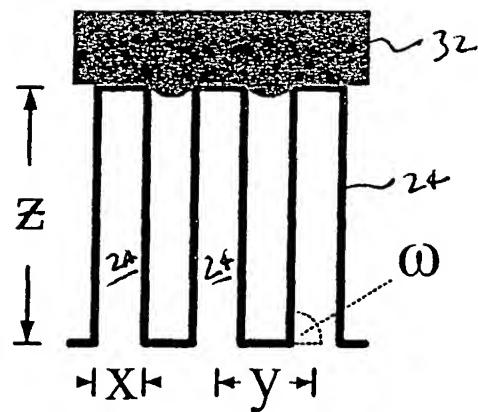


Fig. 7

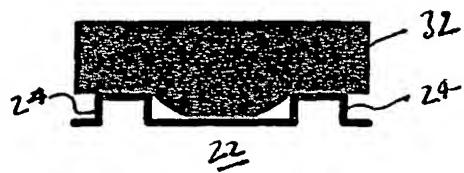


Fig. 8

Fig. 9

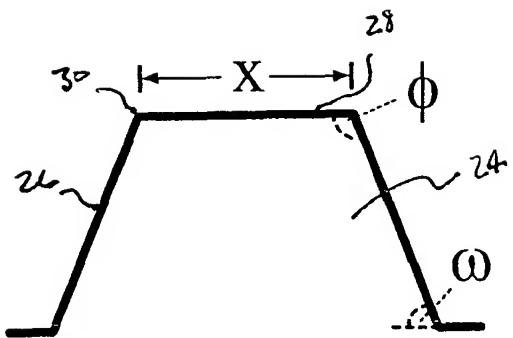
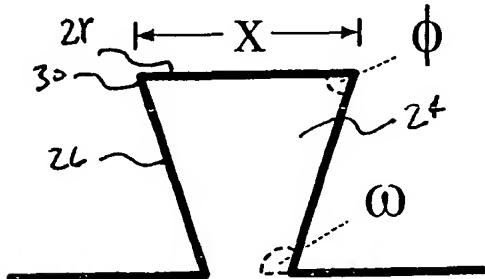


Fig. 10



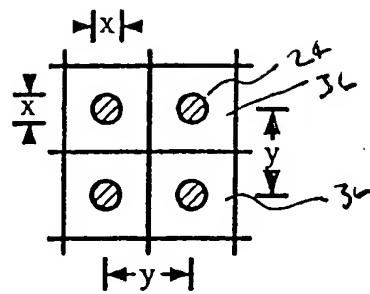


Fig. 11

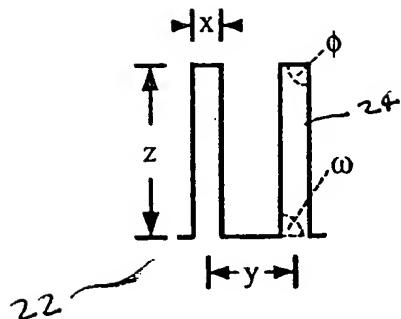


Fig. 12

Contact Line Density (Λ) and Linear Fraction of Contact Along Asperities (λ_p)

Geometry	Λ	λ_p
Hexagonal Array of Square Posts	$\frac{4x}{y^2}$	$\frac{(x/y)}{\{5/4 - 2(x/y) + (x/y)^2\}^{1/2} + x/y}$
Rectangular Array of Square Posts	$\frac{4x}{y^2}$	$\frac{x}{y}$
Rectangular Array of Cylindrical Posts	$\frac{\pi x}{y^2}$	$(1 - x/y)[1 + (1/2\pi - 1)(x/y)]$
Parallel Ridges	$\frac{2}{y}$	$\frac{x}{y}$

Fig. 13

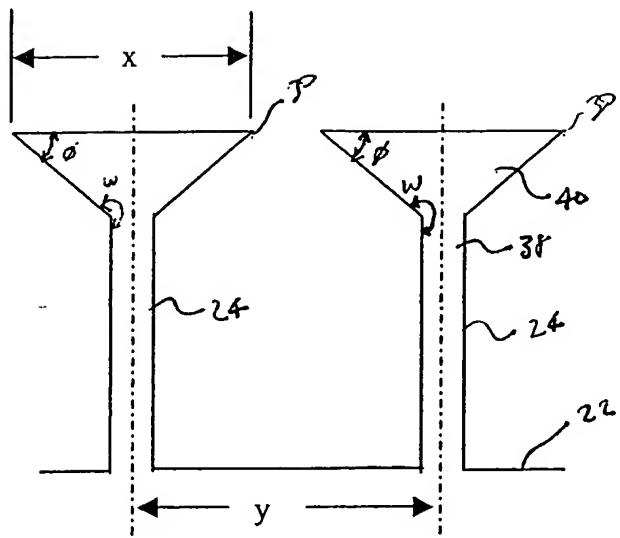


FIG. 14

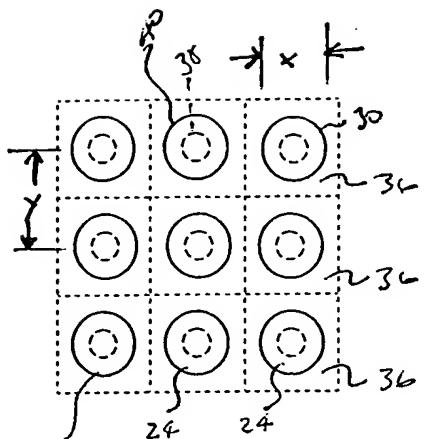


FIG. 15

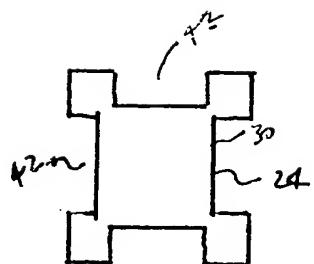


Fig. 16

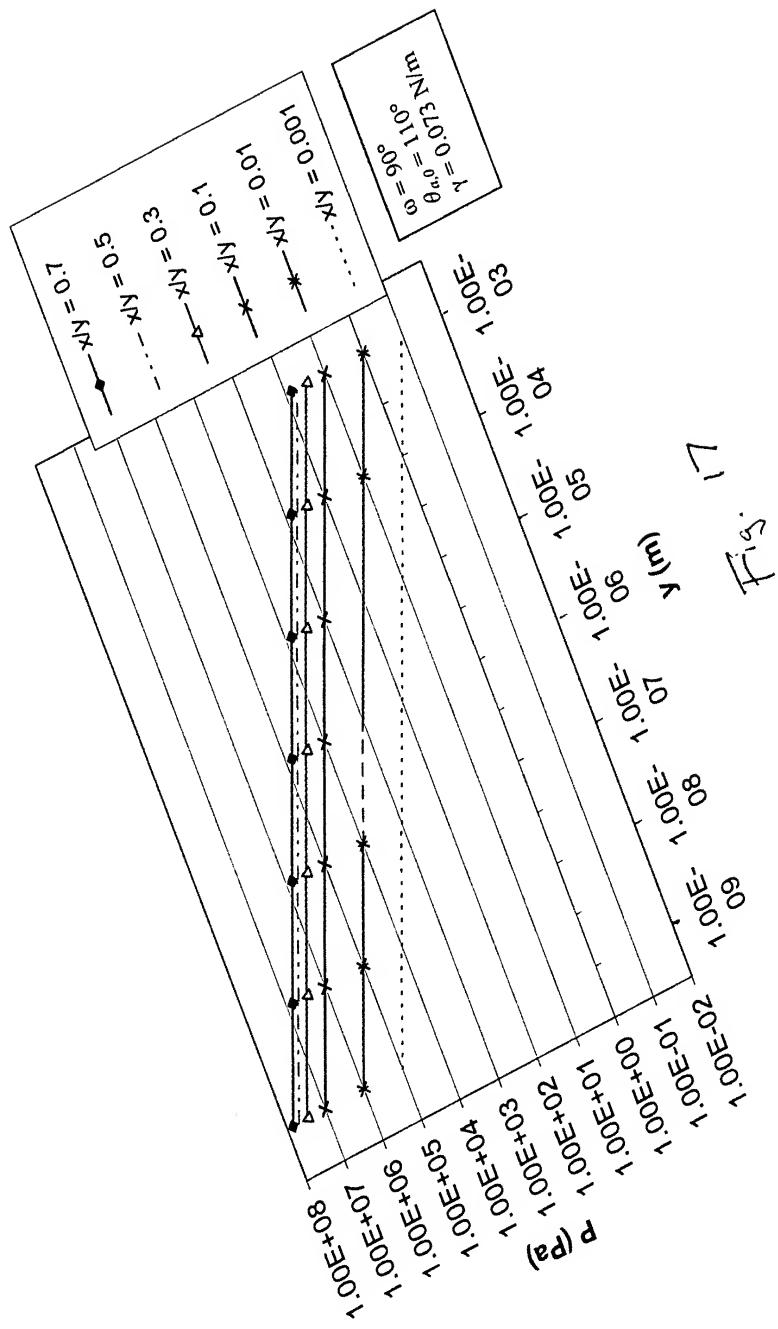


Fig. 17